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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,297	04/14/2005	Hakan Moller	027651-266	6310
	7590 08/10/200 INGERSOLL & ROO	FV PC	EXAMINER	
POST OFFICE	BOX 1404		JOYNER, KEVIN	
ALEXANDRIA	A, VA 22313-1404		ART UNIT	PAPER NUMBER
		•	1744	
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			MAIL DATE	DELIVERY MODE
	i e		08/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) Ap								
## Examiner Art Unit Kewin C. Joyner 1744 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 3°C (FR. 1.138/g), in no event, however, may a rapy be timely filed in 10 period for reply will be standard period for reply will, by standard period will appear will explore the major date of this communication. Fabrico to gray within the set or extended period for reply will, by standard period will appear will explore them separations become ABANDONED (33 U.S.C. § 133). And purply received by the Diffic Mailows, the maximum after the maintenance and the thin mammonism after them and the communication. ### Art Unit The set of them and the maintenance of the communication is communication. ### Fabrico to the set of extended period for reply will, by standard, set the application to become ABANDONED (33 U.S.C. § 133). And unity reduces them separation of them set of the communication of the communication of the communication of them set of them set of the communication of them set of the communication of t	Office Action Summary		Application No.	Applicant(s)				
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The MAILING DATE of this communication appears on the cover sheet with the correspondence address—Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extending to the map by a evaluation with the provision of 37 CPR 1-18(a), in no event, however, may a reply be timely filed if NO period for reply is specified above, the maximum statutory period will apply and well expect SIX (8) MONTHS from the malling date of this communication. Fallies to prove within the set or extended part of to review likely statute, cause the application to become ARANDONE /38 U.S. C. § 113). Any reply received by the others bear than three months after the malling date of this communication, even if timely filed, may reduce any exempe place it is adjustment. Set 2 FPR 1-17640. Status 1) □ Responsive to communication(s) filed on 09 May 2007. 2a) □ This action is FINAL. 2b) □ This action is condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-25 is/are pending in the application. 4a) □ Of the above claim(s) 20-35 is/are withdrawn from consideration. 5) □ Claim(s) 1-35 is/are allowed. 6) □ Claim(s) 1-36 is/are allowed. 6) □ Claim(s) 1-36 is/are allowed. 7) □ Claim(s) 1-37 is/are allowed. 8) □ Claim(s) 1-37 is/are allowed. 8) □ Claim(s) 1-37 is/are allowed. 9) □ The precification is objected to by the Examiner. Application Papers 9) □ The drawing(s) filed on 1-38 is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The drawing(s) filed on 1-38 is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 10 □ The drawing(s) filed on 1-38 is/are: a) □ accepted or b) □ objected to by the Examiner. Application from the international file of the priority documents have been received in Application No.			Examiner	Art Unit				
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FINAL ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3-6, 8-14 and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zelina et al. (U.S. Publication No. 2002/0129915) in view of Watling et al. (U.K. Patent Application No. GB 2354443 A).

Zelina discloses a device for sterilization in production of packages which is adapted for sterilization with a gaseous sterilizing agent kept in the gaseous phase throughout the sterilization process, said device comprising a heating zone (170) a sterilization zone (11) and a venting zone (182) as shown in Figure 8, an ambient temperature sensor (152) that is capable of sensing the ambient temperature outside the device as shown in Figure 1, a concentration meter (153) that is capable of measuring the concentration of sterilizing agent in the sterilization zone as shown in Figure 8, and a first control unit (150) for controlling the amount of sterilizing agent introduced in the sterilization zone based on the temperature measured by the ambient temperature sensor and the concentration measured by the concentration meter as disclosed in paragraph 57. Zelina does not appear to disclose that the temperature sensor is located outside the device and a relative humidity sensor for measuring the

relative humidity outside the device. Watling discloses a device (10) for sterilization of packages wherein the device comprises a controlled loop with ambient temperature and relative humidity sensors (14) located outside of the device in order to provide a recirculating system that does not require the steps of removing water vapor and sterilizing gas mixtures during the critical sterilization phase of the cycle on page 4 and Figure 1. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide relative humidity and ambient temperature sensors located outside of the device in order to provide a system that does not require the steps of removing water vapor and sterilizing gas mixtures during the critical sterilization phase as exemplified by Watling.

In regards to claim 3, Zelina continues to disclose that the device further comprises a package heating temperature sensor that is capable of sensing the temperature of the packages before entry into the sterilization zone as disclosed in paragraph 59. More specifically, the paragraph discloses that in an alternate embodiment the temperature of the individual containers are measured if the process cannot control the temperature of the incoming containers accurately. Therefore, the sensor of the alternate embodiment provides a sensor that is fully capable of measuring the temperature of the packages before entry into the sterilization zone.

Concerning claim 4, the device further comprises a feedback circuit that is capable of controlling the heating in the heating zone based on the temperature of the packages as disclosed in paragraphs 57 and 58.

Regarding claim 5, the reference continues to disclose that the device comprises a condensation detector that is capable of detecting condensation in the sterilization zone as disclosed in paragraph 59. Concerning claim 8, the reference also teaches that the gaseous sterilizing agent is hydrogen peroxide in paragraph 14. In regards to claim 10, the reference teaches that the device sterilizes the packages before filling the packages with said packages having an open end and a closed end as shown in Figure 8.

Concerning claim 6, the device further comprises a means for maintaining a higher pressure in the sterilization zone than in the heating zone and venting zone. More specifically, the venting zone has a vacuum pump that creates a negative pressure in that zone, thus creating a means for maintaining a higher pressure in the sterilization zone than in the venting zone. The sterilization zone has fill lines (172) that supply vapor to the sterilization zone causing a positive pressure in that zone. Since there is no source of positive pressure in the heating zone as shown in Figure 8, then the sterilization zone comprises a means for maintaining a higher pressure in the sterilization zone than in the heating zone. Regarding claim 9, the reference continues to disclose that the packages are subjected to filling (paragraph 65)

Regarding claim 10, Zelina continues to disclose that the heating zone comprises means (171) that is capable of heating the packages to a temperature above a dew point of the sterilizing agent used in the sterilization zone as disclosed in paragraph 62.

Concerning claim 11, the reference also discloses that the venting zone comprises means that is capable of venting away the sterilizing agent used in the

sterilization zone from the packages after sterilization as disclosed in paragraphs 64 and 65.

Concerning claims 12 and 13, the reference continues to disclose that the device comprises means for controlling a flow of gaseous sterilizing agent in the sterilization zone, such that the gaseous sterilizing agent flows essentially in a direction from the open end of the packages toward the closed end of the packages as well as introducing the gaseous sterilizing agent in a top portion of the sterilization zone and evacuating the sterilizing agent in a bottom portion of the sterilization zone, and maintaining a flow of gaseous sterilizing agent essentially from top to bottom as disclosed in paragraph 63.

In regards to claim 14, the reference also teaches that the device comprises a means for controlling the venting air flow in the venting zone such that the venting air flows essentially in a direction from the open end of the packages toward the closed end of the packages as shown in Figure 8 and disclosed in column 65. Concerning claim 16, the reference teaches that the device is fully capable of sterilizing itself internally. More specifically, the hydrogen peroxide and the heaters in the sterilization and heating zones will not only sterilize the bottles themselves but also the area around the bottles and the structural parts inside zones. Regarding claims 17 and 18, the reference teaches that the device comprises means (171) for heating the interior of the device and a unit (10) for production of the gaseous sterilizing agent as shown in Figure 8.

Regarding claim 19, Zelina continues to disclose that the device comprises a filling zone (190) for filling packages and means for maintaining a higher pressure in the filling zone than in the venting zone. More specifically, the filling zone (190) operates under an

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ambient pressure and the venting zone (182) operates under a negative pressure from the exhaust line (182) and the vacuum pump (184). Thus, the exhaust line and the vacuum pump is a means for maintaining a higher pressure in the filling zone than in the venting zone.

3. Claims 2, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zelina (U.S. Publication No. 2002/0159915) in view of Watling et al. (U.K. Patent Application No. GB 2354443 A) as applied to claims 1, 3-6, 8-14 and 16-19 above, and further in view of Taggart (U.S. Publication No. 2001/0000558).

In regards to claim 2, Zelina in view of Watling is relied upon as set forth above. Zelina in view of Watling does not specifically state that the device comprises a package start temperature sensor for sensing the temperature of the packages entering the heating zone. Taggart discloses a device for sterilization in the production of packages with a sterilizing agent, said device comprising a sterilization zone (zones 60 and 116) and a heating zone (152). The reference continues to disclose that apparatus comprises a temperature start sensor (H) that is capable of sensing the temperature of the packages entering the heating zone as shown in Figure 16. More specifically, two temperature sensors are located in the heating zone (152). Each sensor is located at one end of the zone as shown in Figure 16. The packages move through the apparatus from left to right in Figure 16 (paragraphs 46 and 47). The sensor on the left side is fully capable of sensing the temperature of the packages entering the heating zone because of its position in the zone. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus of Zelina in view of Watling

to include a temperature sensor for sensing the temperature of the packages entering the heating zone to control the process as efficiently and effectively as possible as exemplified by Taggart.

Concerning claim 7, Zelina in view of Watling is relied upon as set forth above, wherein the reference continues to disclose that the device contains HEPA filters in between each zone to deter any cross contamination as disclosed in paragraph 65. However, Zelina does not specifically disclose that the partitionings (referenced as HEPA filters) have openings for the passage of the packages. Taggart discloses a device for sterilization in the production of packages with a sterilizing agent, said device comprising a sterilization zone (zones 60 and 116) and a heating zone (152). The reference further discloses that the zones are separated from each other by means of partitionings having openings for the passage of packages to control the flow of sterile air throughout the apparatus (paragraphs 64-67). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus of Zelina in view of Watling to include partitionings having openings between each zone to permit the passage of packages and control the flow of sterile air as exemplified by Taggart.

4. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zelina (U.S. Publication No. 2002/0159915) in view of Watling et al. (U.K. Patent Application No. GB 2354443 A) as applied to claims 1, 3-6, 8-14 and 16-19 above, and further in view of Niwa (U.S. Publication No. 2001/0000558).

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Concerning claim 15, Zelina in view of Watling is relied upon as set forth above, wherein the reference further discloses a means (186 and 188) for controlling the flow of venting air arranged to introduce the venting air in a top portion of the venting zone, and maintaining a flow of venting air essentially from top to bottom as shown in Figure 8. Zelina in view of Watling does not appear to disclose that the air is evacuated in the bottom portion of the venting zone. Niwa discloses a device used in the production of packages that includes a sterilization zone as well as a venting zone (referenced as a dearation of filling of inert gas) as shown in Figure 1. The reference further discloses that the device comprises a means for controlling a venting air flow in the venting zone, wherein the means for controlling the flow of venting air are arranged to introduce the venting air in a top portion of the venting zone and to evacuate the venting air in a bottom portion of the venting zone, maintaining a flow of venting air essentially from top to bottom (column 9, lines 7-45. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus of Zelina in view of Watling to evacuate the air in the bottom portion of the venting zone in order to utilize the effects of gravity and efficiently remove any unnecessary components away from the sterilized packages.

Response to Arguments

5. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's Principle Arguments are:

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(a) Zelina does not disclose a combination of an ambient temperature sensor, relative humidity sensor and concentration meter as claimed.

The argument is moot in view of the new grounds of rejection.

(b) The combination of Zelina in view of Taggart or Niwa does not disclose the above discussed missing features of Zelina in regard to claim 1.

The argument is moot in view of the new grounds of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin C. Joyner whose telephone number is (571) 272-2709. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gladys Corcoran can be reached on (571) 272-1214. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KCJ

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